Peak-to-Peak Springs (Cont.)

Inch Series

Spirolox P/N	Bore Ø	Shaft Ø	Load Lbs. P	Work Height H_W	Free Height H_F (Ref.)	Number of Turns L	Number of Waves N	Spring Thickness F**	Radial Wall E**	Spring Rate* Lbs./In.
CML 137- 7	1.375	1.030	15	0.179	0.590	7	3.5	0.012	0.122	36
CML 137- 8	1.375	1.030	15	0.206	0.680	8	3.5	0.012	0.122	32
CML 137-10	1.375	1.030	15	0.256	0.840	10	3.5	0.012	0.122	26
CML 137-13	1.375	1.030	15	0.341	1.110	13	3.5	0.012	0.122	20
CML 137-16	1.375	1.030	15	0.424	1.360	16	3.5	0.012	0.122	16
CML 137-20	1.375	1.030	15	0.530	1.710	20	3.5	0.012	0.122	13
CMM 137- 3	1.375	1.030	25	0.142	0.260	3	3.5	0.016	0.133	212
CMM 137- 4	1.375	1.030	25	0.186	0.340	4	3.5	0.016	0.133	162
CMM 137- 5	1.375	1.030	25	0.240	0.430	5	3.5	0.016	0.133	132
CMM 137- 6	1.375	1.030	25	0.281	0.510	6	3.5	0.016	0.133	109
CMM 137- 7	1.375	1.030	25	0.340	0.610	7	3.5	0.016	0.133	93
CMM 137- 8	1.375	1.030	25	0.384	0.690	8	3.5	0.016	0.133	82
CMM 137-10	1.375	1.030	25	0.486	0.870	10	3.5	0.016	0.133	65
CMM 137-13	1.375	1.030	25	0.632	1.130	13	3.5	0.016	0.133	50
CMM 137-16	1.375	1.030	25	0.788	1.400	16	3.5	0.016	0.133	41
CMM 137-20	1.375	1.030	25	0.982	1.740	20	3.5	0.016	0.133	33
CMH 137- 3	1.375	1.030	35	0.149	0.250	3	3.5	0.018	0.143	347
CMH 137- 4	1.375	1.030	35	0.189	0.330	4	3.5	0.018	0.143	248
CMH 137- 5	1.375	1.030	35	0.247	0.420	5	3.5	0.018	0.143	202
CMH 137- 6	1.375	1.030	35	0.287	0.500	6	3.5	0.018	0.143	164
CMH 137- 7	1.375	1.030	35	0.343	0.590	7	3.5	0.018	0.143	142
CMH 137- 8	1.375	1.030	35	0.390	0.670	8	3.5	0.018	0.143	125
CMH 137-10	1.375	1.030	35	0.490	0.840	10	3.5	0.018	0.143	100
CMH 137-13	1.375	1.030	35	0.646	1.100	13	3.5	0.018	0.143	77
CMH 137-16	1.375	1.030	35	0.793	1.350	16	3.5	0.018	0.143	63
CMH 137-20	1.375	1.030	35	1.000	1.700	20	3.5	0.018	0.143	50
CML 150- 3	1.500	1.140	20	0.129	0.250	3	3.5	0.016	0.133	165
CML 150- 4	1.500	1.140	20	0.164	0.320	4	3.5	0.016	0.133	128
CML 150- 5	1.500	1.140	20	0.213	0.410	5	3.5	0.016	0.133	102
CML 150- 6	1.500	1.140	20	0.247	0.490	6	3.5	0.016	0.133	82
CML 150- 7	1.500	1.140	20	0.301	0.580	7	3.5	0.016	0.133	72
CML 150- 8	1.500	1.140	20	0.337	0.660	8	3.5	0.016	0.133	62
CML 150-10	1.500	1.140	20	0.430	0.830	10	3.5	0.016	0.133	50
CML 150-13	1.500	1.140	20	0.565	1.090	13	3.5	0.016	0.133	38
CML 150-16	1.500	1.140	20	0.694	1.340	16	3.5	0.016	0.133	31
CML 150-20	1.500	1.140	20	0.866	1.670	20	3.5	0.016	0.133	25
CMM 150- 3	1.500	1.140	35	0.122	0.260	3	3.5	0.018	0.143	254
CMM 150- 4	1.500	1.140	35	0.158	0.340	4	3.5	0.018	0.143	192
CMM 150- 5	1.500	1.140	35	0.206	0.430	5	3.5	0.018	0.143	156
CMM 150- 6	1.500	1.140	35	0.241	0.520	6	3.5	0.018	0.143	125
CMM 150- 7	1.500	1.140	35	0.291	0.610	7	3.5	0.018	0.143	110
CMM 150- 8	1.500	1.140	35	0.324	0.690	8	3.5	0.018	0.143	96
CMM 150-10	1.500	1.140	35	0.409	0.870	10	3.5	0.018	0.143	76
CMM 150-13	1.500	1.140	35	0.540	1.140	13	3.5	0.018	0.143	58
CMM 150-16	1.500	1.140	35	0.657	1.390	16	3.5	0.018	0.143	48
CMM 150-20	1.500	1.140	35	0.835	1.750	20	3.5	0.018	0.143	38
CMH 150- 3	1.500	1.140	60	0.166	0.240	3	4.5	0.018	0.143	811
CMH 150- 4	1.500	1.140	60	0.216	0.310	4	4.5	0.018	0.143	638
CMH 150- 5	1.500	1.140	60	0.278	0.400	5	4.5	0.018	0.143	492
CMH 150- 6	1.500	1.140	60	0.329	0.480	6	4.5	0.018	0.143	397
CMH 150- 7	1.500	1.140	60	0.390	0.560	7	4.5	0.018	0.143	353
CMH 150- 8	1.500	1.140	60	0.443	0.640	8	4.5	0.018	0.143	305
CMH 150-10	1.500	1.140	60	0.555	0.800	10	4.5	0.018	0.143	245
CMH 150-13	1.500	1.140	60	0.726	1.050	13	4.5	0.018	0.143	185
CMH 150-16	1.500	1.140	60	0.890	1.290	16	4.5	0.018	0.143	150
CMH 150-20	1.500	1.140	60	1.119	1.610	20	4.5	0.018	0.143	122
CML 175- 3	1.750	1.340	25	0.155	0.310	3	3.5	0.018	0.143	161
CML 175- 4	1.750	1.340	25	0.200	0.410	4	3.5	0.018	0.143	119
CML 175- 5	1.750	1.340	25	0.265	0.520	5	3.5	0.018	0.143	98
CML 175- 6	1.750	1.340	25	0.310	0.620	6	3.5	0.018	0.143	81

* *Spring rate theoretical.*

** *Material size subject to change.*

Peak-to-Peak Springs (Cont.)

Inch Series

Spirolox P/N	Bore Ø	Shaft Ø	Load Lbs. P	Work Height H_W	Free Height H_F (Ref.)	Number of Turns L	Number of Waves N	Spring Thickness F**	Radial Wall E**	Spring Rate* Lbs./In.
CML 175- 7	1.750	1.340	25	0.367	0.730	7	3.5	0.018	0.143	69
CML 175- 8	1.750	1.340	25	0.415	0.830	8	3.5	0.018	0.143	60
CML 175-10	1.750	1.340	25	0.523	1.040	10	3.5	0.018	0.143	48
CML 175-12	1.750	1.340	25	0.638	1.260	12	3.5	0.018	0.143	40
CML 175-14	1.750	1.340	25	0.737	1.460	14	3.5	0.018	0.143	35
CML 175-16	1.750	1.340	25	0.844	1.680	16	3.5	0.018	0.143	30
CMM 175- 3	1.750	1.340	50	0.188	0.290	3	4.5	0.018	0.143	490
CMM 175- 4	1.750	1.340	50	0.244	0.380	4	4.5	0.018	0.143	368
CMM 175- 5	1.750	1.340	50	0.315	0.480	5	4.5	0.018	0.143	303
CMM 175- 6	1.750	1.340	50	0.374	0.570	6	4.5	0.018	0.143	255
CMM 175- 7	1.750	1.340	50	0.452	0.680	7	4.5	0.018	0.143	219
CMM 175- 8	1.750	1.340	50	0.505	0.770	8	4.5	0.018	0.143	189
CMM 175-10	1.750	1.340	50	0.629	0.960	10	4.5	0.018	0.143	151
CMM 175-12	1.750	1.340	50	0.768	1.160	12	4.5	0.018	0.143	128
CMM 175-14	1.750	1.340	50	0.899	1.360	14	4.5	0.018	0.143	108
CMM 175-16	1.750	1.340	50	1.026	1.550	16	4.5	0.018	0.143	95
CMH 175- 3	1.750	1.340	90	0.232	0.300	3	4.5	0.024	0.148	1324
CMH 175- 4	1.750	1.340	90	0.314	0.410	4	4.5	0.024	0.148	938
CMH 175- 5	1.750	1.340	90	0.409	0.530	5	4.5	0.024	0.148	744
CMH 175- 6	1.750	1.340	90	0.482	0.630	6	4.5	0.024	0.148	608
CMH 175- 7	1.750	1.340	90	0.577	0.740	7	4.5	0.024	0.148	552
CMH 175- 8	1.750	1.340	90	0.651	0.840	8	4.5	0.024	0.148	476
CMH 175-10	1.750	1.340	90	0.813	1.050	10	4.5	0.024	0.148	380
CMH 175-12	1.750	1.340	90	0.980	1.270	12	4.5	0.024	0.148	310
CMH 175-14	1.750	1.340	90	1.147	1.480	14	4.5	0.024	0.148	270
CMH 175-16	1.750	1.340	90	1.317	1.700	16	4.5	0.024	0.148	235
CML 200- 3	2.000	1.600	25	0.094	0.340	3	3.5	0.018	0.143	102
CML 200- 4	2.000	1.600	25	0.120	0.450	4	3.5	0.018	0.143	76
CML 200- 5	2.000	1.600	25	0.158	0.570	5	3.5	0.018	0.143	61
CML 200- 6	2.000	1.600	25	0.179	0.680	6	3.5	0.018	0.143	50
CML 200- 7	2.000	1.600	25	0.217	0.800	7	3.5	0.018	0.143	43
CML 200- 8	2.000	1.600	25	0.243	0.910	8	3.5	0.018	0.143	37
CML 200-10	2.000	1.600	25	0.306	1.140	10	3.5	0.018	0.143	30
CML 200-12	2.000	1.600	25	0.365	1.360	12	3.5	0.018	0.143	25
CML 200-14	2.000	1.600	25	0.433	1.590	14	3.5	0.018	0.143	22
CML 200-16	2.000	1.600	25	0.490	1.820	16	3.5	0.018	0.143	19
CMM 200- 3	2.000	1.600	50	0.140	0.300	3	4.5	0.018	0.143	313
CMM 200- 4	2.000	1.600	50	0.184	0.390	4	4.5	0.018	0.143	243
CMM 200- 5	2.000	1.600	50	0.245	0.510	5	4.5	0.018	0.143	189
CMM 200- 6	2.000	1.600	50	0.278	0.590	6	4.5	0.018	0.143	160
CMM 200- 7	2.000	1.600	50	0.345	0.710	7	4.5	0.018	0.143	137
CMM 200- 8	2.000	1.600	50	0.395	0.810	8	4.5	0.018	0.143	120
CMM 200-10	2.000	1.600	50	0.498	1.020	10	4.5	0.018	0.143	96
CMM 200-12	2.000	1.600	50	0.593	1.220	12	4.5	0.018	0.143	80
CMM 200-14	2.000	1.600	50	0.694	1.430	14	4.5	0.018	0.143	68
CMM 200-16	2.000	1.600	50	0.800	1.640	16	4.5	0.018	0.143	60
CMH 200- 3	2.000	1.600	90	0.197	0.310	3	4.5	0.024	0.148	796
CMH 200- 4	2.000	1.600	90	0.258	0.410	4	4.5	0.024	0.148	592
CMH 200- 5	2.000	1.600	90	0.332	0.520	5	4.5	0.024	0.148	479
CMH 200- 6	2.000	1.600	90	0.389	0.620	6	4.5	0.024	0.148	390
CMH 200- 7	2.000	1.600	90	0.465	0.730	7	4.5	0.024	0.148	340
CMH 200- 8	2.000	1.600	90	0.525	0.830	8	4.5	0.024	0.148	295
CMH 200-10	2.000	1.600	90	0.661	1.040	10	4.5	0.024	0.148	237
CMH 200-12	2.000	1.600	90	0.781	1.240	12	4.5	0.024	0.148	196
CMH 200-14	2.000	1.600	90	0.941	1.480	14	4.5	0.024	0.148	167
CMH 200-16	2.000	1.600	90	1.069	1.680	16	4.5	0.024	0.148	147

* *Spring rate theoretical.*

** *Material size subject to change.*

Spirolox Wave Spring Design
COPY THIS PAGE

FAX: 1-314-343-7058
Phone: 1-314-343-5885 or 1-800-467-2424

Name _____ Company _____

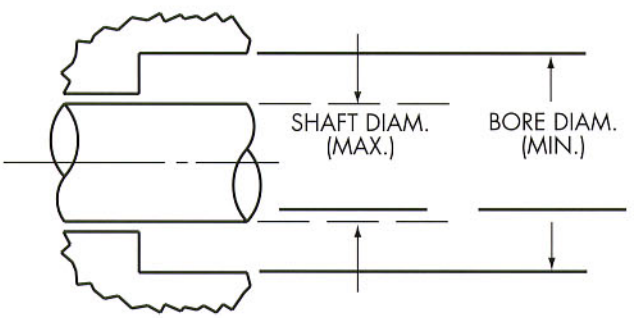
Address _____

City _____ State _____ ZIP _____

Fax (_____) _____ Phone (_____) _____

1. Design Envelope:
Spring Pilots

☐ Bore
☐ Shaft



Spring Dimensions

Spirolox Wave Spring O.D. _____ inch maximum
Spirolox Wave Spring I.D. _____ inch minimum
Number of Waves _____
Maximum Solid Height _____

2. Load Characteristics (Specify one of the following:)

A. Load range from _____ lbs. to _____ lbs. at work height of _____ in.
Approximate free height _____ in.
Spring rate _____ lbs./in.

B. Load (1) _____ lbs. at work height (1) of _____ in.
Load (2) _____ lbs. at work height (2) of _____ in.
Approximate free height _____ in.
Spring rate _____ lb./in.

C. Other specifications _____

3. Cyclic Service:

☐ Fixed load
☐ Cyclic load
- ☐ Up to 10,000 cycles
- ☐ Up to 100,000 cycles
- ☐ Up to one million cycles
- ☐ Above one million cycles

4. Environment

Maximum temperature _____°F
☐ Corrosive
☐ Non-corrosive

5. Material

☐ Carbon spring steel
☐ 17-7PH condition C/CH 900
☐ Stainless steel 302

6. Finish

☐ Passivation
☐ Black Oxide
☐ Phosphate
☐ _____

7. Application _____

8. Quantity _____

9. Miscellaneous: Please fill in the following space if you have any other comments: _____

Spirolox®